

Algebra Mid-Chapter 7  
Quiz Review

Name \_\_\_\_\_

Decide if the given ordered pair is a solution to the system of equations.

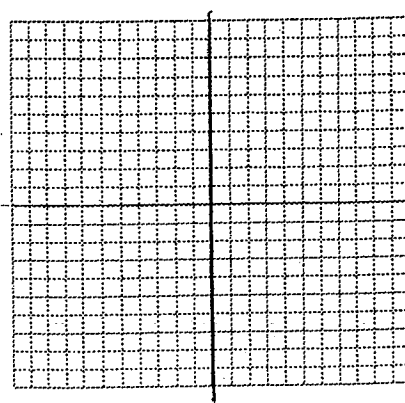
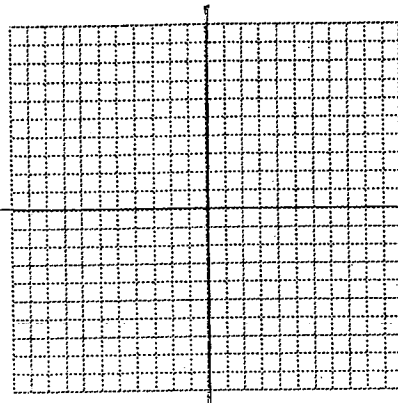
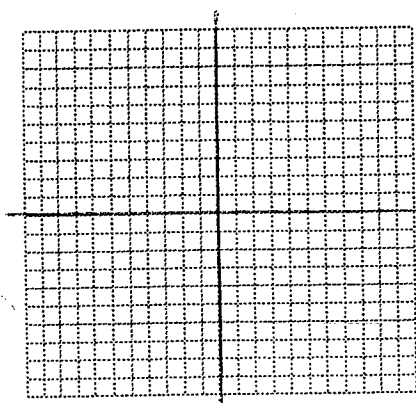
- 1) (5,2)  $3x - 2y = 11$       2) (3, -6)  $x + 3y = 15$       3) (3, -3)  $y = 3x - 12$   
 $6y = x + 7$                        $4x + y = 6$                        $2x + y = 3$

Solve each system of equations graphically.

4)  $x - y = 6$   
 $2x + y = 0$

5)  $2x - 2y = -4$   
 $y = 2$

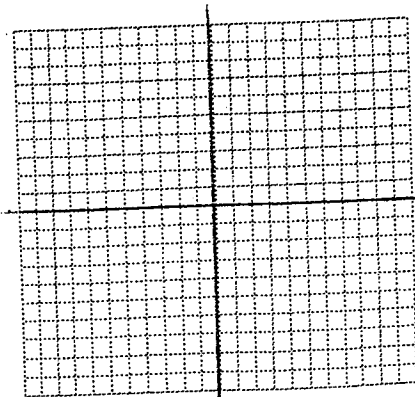
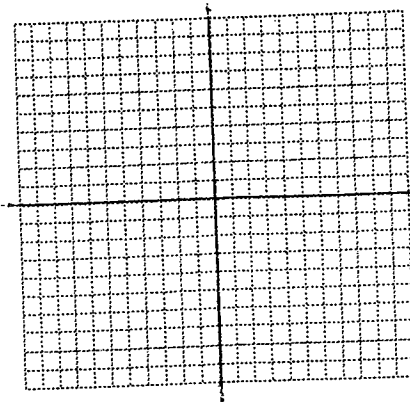
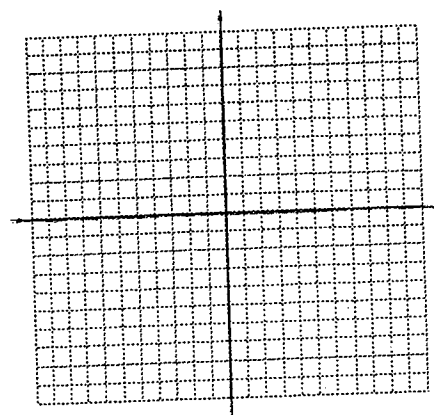
6)  $2x - y = 1$   
 $3x + y = 6$



7)  $x + 2y = 4$   
 $2x - y = 8$

8)  $2x - y = 5$   
 $x - y = 1$

9)  $x - y = -2$   
 $2x + y = 5$



Use the Substitution Method to solve each system.

10)  $y = 5 - 4x$   
 $3x - 2y = 12$

11)  $2y - x = 6$   
 $3y - x = 4$

12)  $x - 3y = -5$   
 $2x + y = 11$

13)  $2x = 3y$   
 $3y - x = 3$

14)  $3x - 4y = -15$   
 $5x + y = -2$

15)  $2x + y = -6$   
 $3x + y = -10$

Use the Elimination Method to solve each system.

16)  $2x + y = -6$   
 $3x + y = -10$

17)  $7y + 15 = 3x$   
 $15 = 3x + 2y$

18)  $x + 4y = 2$   
 $x - 2y = 8$

19)  $x + 5y + 11 = 0$   
 $3x - 5y - 7 = 0$

Choose any method to solve each system of equations. Label the method you chose and write a brief explanation of why you selected that method.

19)  $x + y = 0$   
 $3x + 2y = 1$

20)  $2x + y = 5$   
 $x - y = 1$